Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-37 (*Canceled*).

38. (*Currently amended*) A method for providing auto-stereo three-dimensional views, the method comprising:

providing ~~a computer-processed~~ an image on a substrate ~~made of a medium~~ of sufficient transparency to allow light therethrough, said image ~~having been processed to provide said auto-stereo three-dimensional views for left and right eye perspectives~~ comprising a plurality of interspersed views made up of pixels organized in a plurality of cells of equal size and shape each of which contains image information corresponding to a predetermined range of views for a region of the image in which the cell is located, each cell being substantially hexagonal with a maximum height in a first direction that is centered relative to the cell and that, in a second direction perpendicular to the first direction, tapers continuously to a minimum height at the extremes of the cell, each cell being contiguous with at least one adjacent cell in the second direction so as to together form one of a plurality of cell rows, said cell rows lying adjacent to each other in the first direction with cell positions being staggered in the second direction from one row to an adjacent row such that a maximum cell height in a first row aligns substantially with a minimum cell height in an adjacent row, and cells in adjacent rows lie partially adjacent to each other in the second direction;

placing a barrier screen in front of said image to provide a parallax effect, said barrier screen having a plurality of rows of staggered apertures through which light can pass, said apertures being elongate in the first direction and having a height in the first direction approximately equal to the maximum height of the cells, each aperture being positioned adjacent to one of the cells;

~~providing a plurality of dark rippled lines across said computer-processed image, said dark rippled lines alternating between points corresponding to a top of an aperture in a lower row and a bottom of an aperture in an upper row when said image and said barrier screen are aligned together,~~ and

illuminating said image from behind using a light source~~;~~

~~wherein a width (w) and a length (l) of the apertures, a horizontal distance between the apertures (g), a vertical gap between rows of the apertures (d), and a thickness of the substrate (t) are set while taking into account luminosity (L), horizontal viewing angle (H), vertical viewing angle (V), depth of field (D) and image definition (R) in accordance with the following relationships:~~

~~$w=1/D=L$~~

~~$l=1/D=L$~~

~~$g=1/L=H=1/R$~~

~~$d=V=1/L$~~

~~$t=D=1/H=1/V$~~.

39. (*Currently amended*) ~~An apparatus~~ A method as claimed in claim 38, wherein said placing a barrier screen comprises placing a barrier screen having a film with at least one opaque layer and an additional layer, said opaque layer and said additional layer each having said staggered apertures.

40. (*Currently amended*) ~~An apparatus~~ A method as claimed in claim 39, wherein said opaque layer has a back side facing a viewer and covered in a dark material.

41. (*Currently amended*) ~~An apparatus~~ A method as claimed in claim 40, wherein ~~said dark material is black ink~~ placing a barrier screen in front of said image further comprises placing the barrier screen such that each aperture is aligned with a part of an adjacent cell in which the cell has said maximum height.

42. (*Currently amended*) ~~An apparatus~~ A method as claimed in claim 39, wherein said at least one additional layer has a back side facing said image and said light, and covered by a highly reflective material.

43. (*Currently amended*) An apparatus for generating auto-stereo three-dimensional views, said apparatus comprising:

~~a computer-processed~~ an image on a substrate made of sufficient transparency to allow light therethrough, said image ~~having been processed to provide said auto-stereo three-dimensional views for left and right eye perspectives~~ comprising a plurality of interspersed views made up of pixels organized in a plurality of cells of equal size and shape each of which contains image information corresponding to a predetermined range of views for a region of the image in which the cell is located, each cell being substantially hexagonal with a maximum height in a first direction that is centered relative to the cell and that, in a second direction perpendicular to the first direction, tapers continuously to a minimum height at the extremes of the cell, each cell being contiguous with at least one adjacent cell in the second direction so as to together form one of a plurality of cell rows, said cell rows lying adjacent to each other in the first direction with cell positions being staggered in the second direction from one row to an adjacent row such that a maximum cell height in a first row aligns substantially with a minimum cell height in an adjacent row, and cells in adjacent rows lie partially adjacent to each other in the second direction;

a barrier screen in front of said image to provide a parallax effect, said barrier screen having a plurality of rows of staggered apertures through which light can pass, said apertures being elongate in the first direction and having a height in the first direction approximately equal to the maximum height of the cells, each aperture being positioned adjacent to one of the cells; and

~~a dark rippled line across said computer-processed image between each row of apertures, said dark rippled line alternating between points corresponding to a top of an aperture in a lower row and a bottom of an aperture in an upper row when said image and said barrier screen are aligned together, and~~

a light source positioned behind said image for illuminating said image

~~wherein a width (w) and a length (l) of the apertures, a horizontal distance between the apertures (g), a vertical gap between rows of the apertures (d), and a thickness of the substrate (t) are set while taking into account luminosity (L), horizontal viewing angle (H), vertical viewing angle (V), depth of field (D) and image definition (R) in accordance with the following relationships:~~

~~$w=1/D=L$~~

~~$l=1/D=L$~~

~~$g=1/L=H=1/R$~~

~~$d=V=1/L$~~

~~$t=D=1/H=1/V$~~.

44. (*Previously presented*) An apparatus as claimed in claim 43, wherein said barrier screen comprises a film having at least one opaque layer and an additional layer, said opaque layer and said additional layer each having said clear, staggered apertures.

45. (*Previously presented*) An apparatus as claimed in claim 44, wherein said opaque layer has a back side facing a viewer and covered in a dark material.

46. (*Previously presented*) An apparatus as claimed in claim 45, wherein ~~said dark material is black ink~~ the barrier screen is located such that each aperture is aligned with a part of an adjacent cell in which the cell has said maximum height.

47. (*Previously presented*) An apparatus as claimed in claim 44, wherein said at least one additional layer has a back side facing said image and said light, and covered by a highly reflective material.

48. (*New*) An apparatus as claimed in Claim 43 further comprising dark separation lines between adjacent cell rows of the image.

49. (*New*) A method as claimed in Claim 38 further comprising providing dark separation lines between adjacent cell rows of the image.